Jung-Ho Yun

List of Publications by Citations

91 papers	4,879 citations	33 h-index	69 g-index
95 ext. papers	5,853 ext. citations	9.3 avg, IF	5.94 L-index

#	Paper	IF	Citations
91	In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1706923	15.6	361
90	Resistive Switching Behavior in Organic-Inorganic Hybrid CH3 NH3 PbI3-x Clx Perovskite for Resistive Random Access Memory Devices. *Advanced Materials*, **2015**, 27, 6170-5	24	354
89	Organic□norganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. *Nano Research*, **2016**, 9, 692-702	10	283
88	New BiVO Dual Photoanodes with Enriched Oxygen Vacancies for Efficient Solar-Driven Water Splitting. *Advanced Materials*, **2018**, 30, e1800486	24	282
87	An Electrochemically Treated BiVO Photoanode for Efficient Photoelectrochemical Water Splitting. *Angewandte Chemie - International Edition*, **2017**, 56, 8500-8504	16.4	278
86	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs1⊠FAxPbI3 quantum dot solar cells with reduced phase segregation. *Nature Energy*, **2020**, 5, 79-88	62.3	237
85	Stable Hematite Nanosheet Photoanodes for Enhanced Photoelectrochemical Water Splitting. *Advanced Materials*, **2016**, 28, 6405-10	24	225
84	Addressing Toxicity of Lead: Progress and Applications of Low-Toxic Metal Halide Perovskites and Their Derivatives. *Advanced Energy Materials*, **2017**, 7, 1602512	21.8	217
83	Composition-dependent photoluminescence intensity and prolonged recombination lifetime of perovskite CH3NH3PbBr(3-x)Cl(x) films. *Chemical Communications*, **2014**, 50, 11727-30	5.8	200
82	Synergistic crystal facet engineering and structural control of WO3 films exhibiting unprecedented photoelectrochemical performance. *Nano Energy*, **2016**, 24, 94-102	17.1	193
81	New Iron-Cobalt Oxide Catalysts Promoting BiVO4 Films for Photoelectrochemical Water Splitting. *Advanced Functional Materials*, **2018**, 28, 1802685	15.6	150
80	Recent Progress on Visible Light Responsive Heterojunctions for Photocatalytic Applications. *Journal of Materials Science and Technology*, **2017**, 33, 1-22	9.1	146
79	A study of the tribological behaviour of TiO 2 nano-additive water-based lubricants. *Tribology International*, **2017**, 109, 398-408	4.9	128
78	Bifunctional resistive switching behavior in an organolead halide perovskite based Ag/CH3NH3PbI3⊠Clx/FTO structure. *Journal of Materials Chemistry C*, **2016**, 4, 7824-7830	7.1	107
77	Stable and low-cost mesoscopic CH3NH3PbI2 Br perovskite solar cells by using a thin poly(3-hexylthiophene) layer as a hole transporter. *Chemistry - A European Journal*, **2015**, 21, 434-9	4.8	92
76	Friction and wear characteristics of TiO 2 nano-additive water-based lubricant on ferritic stainless steel. *Tribology International*, **2018**, 117, 24-38	4.9	90
75	Transition from the Tetragonal to Cubic Phase of Organohalide Perovskite: The Role of Chlorine in Crystal Formation of CH3NH3PbI3 on TiO2 Substrates. *Journal of Physical Chemistry Letters*, **2015**, 6, 4379-84	6.4	79

74	Nanoarchitectured metal–organic framework-derived hollow carbon nanofiber filters for advanced oxidation processes. *Journal of Materials Chemistry A*, **2019**, 7, 13743-13750	13	74
73	Progress and Perspective in Low-Dimensional Metal Halide Perovskites for Optoelectronic Applications. *Solar Rrl*, **2018**, 2, 1700186	7.1	69
72	Low-temperature processed solar cells with formamidinium tin halide perovskite/fullerene heterojunctions. *Nano Research*, **2016**, 9, 1570-1577	10	69
71	An Electrochemically Treated BiVO4 Photoanode for Efficient Photoelectrochemical Water Splitting. *Angewandte Chemie*, **2017**, 129, 8620-8624	3.6	67
70	A hybrid photoelectrode with plasmonic Au@TiO2 nanoparticles for enhanced photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 20127-20133	13	62
69	Review of recent progress in unassisted photoelectrochemical water splitting: from material modification to configuration design. *Journal of Photonics for Energy*, **2016**, 7, 012006	1.2	57
68	Wrapping the walls of n-TiO2 nanotubes with p-CuInS2 nanoparticles using pulsed-electrodeposition for improved heterojunction photoelectrodes. *Chemical Communications*, **2011**, 47, 11288-90	5.8	53
67	Combined electrophoretic deposition–anodization method to fabricate reduced graphene oxide–TiO2 nanotube films. *RSC Advances*, **2012**, 2, 8164	3.7	52
66	Facile preparation of smooth perovskite films for efficient meso/planar hybrid structured perovskite solar cells. *Chemical Communications*, **2015**, 51, 10038-41	5.8	46
65	Analysis of TiO2 nano-additive water-based lubricants in hot rolling of microalloyed steel. *Journal of Manufacturing Processes*, **2017**, 27, 26-36	5	45
64	Effect of calcium ion (cross-linker) concentration on porosity, surface morphology and thermal behavior of calcium alginates prepared from algae (Undaria pinnatifida). *Carbohydrate Polymers*, **2010**, 81, 633-639	10.3	44
63	Probing Facet-Dependent Surface Defects in MAPbI3 Perovskite Single Crystals. *Journal of Physical Chemistry C*, **2019**, 123, 14144-14151	3.8	43
62	Sodium fluoride-assisted modulation of anodized TiO2 nanotube for dye-sensitized solar cells application. *ACS Applied Materials & Interfaces*, **2011**, 3, 1585-93	9.5	39
61	Dual-Ion-Diffusion Induced Degradation in Lead-Free Cs2AgBiBr6 Double Perovskite Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2002342	15.6	39
60	Tribological Performance and Lubrication Mechanism of Alumina Nanoparticle Water-Based Suspensions in Ball-on-Three-Plate Testing. *Tribology Letters*, **2017**, 65, 1	2.8	37
59	The pH-dependent structural and tribological behaviour of aqueous graphene oxide suspensions. *Tribology International*, **2017**, 116, 460-469	4.9	35
58	Effect of cross-linker and cross-linker concentration on porosity, surface morphology and thermal behavior of metal alginates prepared from algae (Undaria pinnatifida). *Carbohydrate Polymers*, **2009**, 78, 717-724	10.3	33
57	Adenosine-induced transient asystole during intracranial aneurysm surgery: indications, dosing, efficacy, and risks. *Acta Neurochirurgica*, **2015**, 157, 1879-86; discussion 1886	3	31

56	Luminescent europium-doped titania for efficiency and UV-stability enhancement of planar perovskite solar cells. *Nano Energy*, **2020**, 69, 104392	17.1	31
55	Frequency-regulated pulsed electrodeposition of CuInS2 on ZnO nanorod arrays as visible light photoanodes. *Journal of Materials Chemistry A*, **2015**, 3, 15876-15881	13	29
54	Tribological Characteristics of Aqueous Graphene Oxide, Graphitic Carbon Nitride, and Their Mixed Suspensions. *Tribology Letters*, **2018**, 66, 1	2.8	27
53	Synergistic tribological performance of a water based lubricant using graphene oxide and alumina hybrid nanoparticles as additives. *Tribology International*, **2019**, 135, 170-180	4.9	26
52	Highly compact and uniform CH 3 NH 3 Sn 0.5 Pb 0.5 I 3 films for efficient panchromatic planar perovskite solar cells. *Science Bulletin*, **2016**, 61, 1558-1562	10.6	23
51	Phenethylammonium bismuth halides: from single crystals to bulky-organic cation promoted thin-film deposition for potential optoelectronic applications. *Journal of Materials Chemistry A*, **2019**, 7, 20733-20741	13	22
50	Recent advances in low-toxic lead-free metal halide perovskite materials for solar cell application. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 392-398	1.3	22
49	Reduced Graphene Oxide: Control of Water Miscibility, Conductivity, and Defects by Photocatalysis. *ChemCatChem*, **2013**, 5, 3060-3067	5.2	21
48	Biomimetic Silica Nanocapsules for Tunable Sustained Release and Cargo Protection. *Langmuir*, **2017**, 33, 5777-5785	4	19
47	Comprehensive Understanding and Controlling the Defect Structures: An Effective Approach for Organic-Inorganic Hybrid Perovskite-Based Solar-Cell Application. *Frontiers in Energy Research*, **2018**, 6,	3.8	19
46	One-Dimensional TiO2 Nanostructured Photoanodes: From Dye-Sensitised Solar Cells to Perovskite Solar Cells. *Energies*, **2016**, 9, 1030	3.1	18
45	Preventable Trauma Death Rate after Establishing a National Trauma System in Korea. *Journal of Korean Medical Science*, **2019**, 34, e65	4.7	17
44	Configuration-centered photovoltaic applications of metal halide perovskites. *Journal of Materials Chemistry A*, **2017**, 5, 902-909	13	16
43	Periodic nanostructures: preparation, properties and applications. *Chemical Society Reviews*, **2021**, 50, 6423-6482	58.5	16
42	Trilayer Nanomesh Films with Tunable Wettability as Highly Transparent, Flexible, and Recyclable Electrodes. *Advanced Functional Materials*, **2020**, 30, 2002556	15.6	15
41	Inorganic p-Type Semiconductors as Hole Conductor Building Blocks for Robust Perovskite Solar Cells. *Advanced Sustainable Systems*, **2018**, 2, 1800032	5.9	15
40	Fabrication of a CuInS2 photoelectrode using a single-step electrodeposition with controlled calcination atmosphere. *RSC Advances*, **2014**, 4, 3278-3283	3.7	15
39	Thermal Degradation and Kinetics of Alginate Polyurethane Hybrid Material Prepared from Alginic Acid as a Polyol. *Journal of Polymers and the Environment*, **2013**, 21, 224-232	4.5	15

38	Bifunctional photoelectrochemical process for humic acid degradation and hydrogen production using multi-layered p-type CuO photoelectrodes with plasmonic Au@TiO. *Journal of Hazardous Materials*, **2021**, 402, 123533	12.8	14
37	Complete surface coverage of ZnO nanorod arrays by pulsed electrodeposited CuInS2 for visible light energy conversion. *Dalton Transactions*, **2015**, 44, 7127-30	4.3	13
36	Bias-dependent effects in planar perovskite solar cells based on CH3NH3PbI(3-x)Clx films. *Journal of Colloid and Interface Science*, **2015**, 453, 9-14	9.3	11
35	The influence of geometrical characteristics on the photocatalytic activity of TiO2 nanotube arrays for degradation of refractory organic pollutants in wastewater. *Water Science and Technology*, **2015** , 71, 1301-9	2.2	10
34	A dual-electrolyte system for photoelectrochemical hydrogen generation using CuInS2-In2O3-TiO2 nanotube array thin film. *Science China Materials*, **2018**, 61, 895-904	7.1	10
33	Halide Perovskite Single Crystals: Optoelectronic Applications and Strategical Approaches. *Energies* , **2020**, 13, 4250	3.1	10
32	Significant THz-wave absorption property in mixed □and □FAPbI3 hybrid perovskite flexible thin film formed by sequential vacuum evaporation. *Applied Physics Express*, **2019**, 12, 051003	2.4	9
31	Lead-free metal-halide double perovskites: from optoelectronic properties to applications. *Nanophotonics*, **2021**, 10, 2181-2219	6.3	9
30	Tuning the carbon content on TiO 2 nanosheets for optimized sodium storage. *Electrochimica Acta*, **2016**, 219, 163-169	6.7	9
29	Insight into the liquid state of organo-lead halide perovskites and their new roles in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 10355	13	8
28	Optical modeling-assisted characterization of dye-sensitized solar cells using TiO2 nanotube arrays as photoanodes. *Beilstein Journal of Nanotechnology*, **2014**, 5, 895-902	3	8
27	Effect of Solvent Composition on Porosity, Surface Morphology and Thermal Behavior of Metal Alginate Prepared from Algae (Undaria pinnatifida). *Journal of Polymers and the Environment*, **2010**, 18, 45-56	4.5	8
26	Coal beneficiation technology to reduce hazardous heavy metals in fly ash. *Journal of Hazardous Materials*, **2021**, 416, 125853	12.8	7
25	Surface Degradation Mechanism on CHNHPbBr Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation. *Nanomaterials*, **2020**, 10,	5.4	6
24	Efficient and Rapid Photocatalytic Degradation of Methyl Orange Dye Using Al/ZnO Nanoparticles. *Nanomaterials*, **2021**, 11,	5.4	6
23	Morphology-Controlled High-Efficiency Small Molecule Organic Solar Cells without Additive Solvent Treatment. *Nanomaterials*, **2016**, 6,	5.4	6
22	Perovskite Solar Cells: In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells (Adv. Funct. Mater. 17/2018). *Advanced Functional Materials*, **2018**, 28, 1870113	15.6	5
21	Nanosphere lithography: a versatile approach to develop transparent conductive films for optoelectronic applications.. *Advanced Materials*, **2022**, e2103842	24	5

20	Unique phonon modes of a CH3NH3PbBr3 hybrid perovskite film without the influence of defect structures: an attempt toward a novel THz-based application. *NPG Asia Materials*, **2020**, 12,	10.3	5
19	Light soaking effect driven in porphyrin dye-sensitized solar cells using 1D TiO2 nanotube photoanodes. *Sustainable Materials and Technologies*, **2020**, 24, e00165	5.3	4
18	Impacts of Social Distancing During the COVID-19 Outbreaks in Korea: Level 1 Trauma Center Data of Domestic Incidents and Intentional Injury. *Osong Public Health and Research Perspectives*, **2020**, 11, 345-350	6.1	4
17	Nanostructured Semiconductors for Bifunctional Photocatalytic and Photoelectrochemical Energy Conversion. *Semiconductors and Semimetals*, **2017**, 97, 315-347	0.6	3
16	Strong Linear Correlation between CHNH Molecular Defect and THz-Wave Absorption in CHNHPbI Hybrid Perovskite Thin Film. *Nanomaterials*, **2020**, 10,	5.4	3
15	The Combined Use of Cardiac Output and Intracranial Pressure Monitoring to Maintain Optimal Cerebral Perfusion Pressure and Minimize Complications for Severe Traumatic Brain Injury. *Korean Journal of Neurotrauma*, **2017**, 13, 96-102	0.7	3
14	Memory Devices: Resistive Switching Behavior in Organic□norganic Hybrid CH3NH3PbI3⊠Clx Perovskite for Resistive Random Access Memory Devices (Adv. Mater. 40/2015). *Advanced Materials* , **2015**, 27, 6303-6303	24	3
13	Desirable TiO2 compact films for nanostructured hybrid solar cells. *Materials Technology*, **2020**, 35, 31-38	2.1	3
12	Self-Assembled Perovskite Nanoislands on CH3NH3PbI3 Cuboid Single Crystals by Energetic Surface Engineering. *Advanced Functional Materials*,2105542	15.6	3
11	Effect of early enteral nutrition on the incidence of acute acalculous cholecystitis among trauma patients. *Asia Pacific Journal of Clinical Nutrition*, **2020**, 29, 35-40	1	2
10	National trauma system establishment based on implementation of regional trauma centers improves outcomes of trauma care: A follow-up observational study in South Korea. *PLOS Global Public Health*, **2022**, 2, e0000162		1
9	Bias effect on surface chemical states of CH3NH3PbBr3 hybrid perovskite single crystal: Decreasing CH3NH2 molecular defect. *Applied Surface Science*, **2021**, 542, 148536	6.7	1
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7	Controllable Acceleration and Deceleration of Charge Carrier Transport in Metal-Halide Perovskite Single-Crystal by Cs-Cation Induced Bandgap Engineering.. *Small*, **2022**, e2107680	11	1
6	Surface plasmon-driven photoelectrochemical water splitting of a Ag/TiO nanoplate photoanode.. *RSC Advances*, **2022**, 12, 2652-2661	3.7	0
5	Treatment Experiences of Traumatic Brain Injury Patients using Doctor-Helicopter Emergency Medical Service: Early Data in a Regional Trauma Center. *Korean Journal of Neurotrauma*, **2020**, 16, 157-165	0.7	0
4	Quality Improvement in the Trauma Intensive Care Unit Using a Rounding Checklist: The Implementation Results. *Journal of Trauma and Injury*, **2017**, 30, 113-119	0.2	
3	Non-noble Plasmon Enhancement (NNPE) for PV Energy Conversion **2022**, 581-609		

2 2D- Materials-based Heterostructures for PV Energy Conversion **2022**, 449-480

1 Inner Ear Symptoms Are Prevalent in Patients with High Head Abbreviated Injury Scale Scores after Blunt Head Trauma. *Audiology and Neuro-Otology*, **2021**, 1-8 2.2